

SEQUENCE LISTING

<110> AMRAD Operations Pty Ltd

<120> A NOVEL MAMMALIAN GENE, bcl-2, BELONGS TO THE bcl-2 FAMILY OF APOPTOSIS-CONTROLLING GENES

<130> 2096584

<140> 09/155,327

<141> 1997-03-27

<150> PN8965

<151> 1996-03-27

<160> 9

<170> PatentIn Ver. 2.1

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Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val

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3

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Met	Ala	Thr	Pro	Ala	Ser	Ala	Pro	Asp	Thr	Arg	Ala	Leu	Val	Ala	Asp	
1				5					10					15		
ttt	gta	ggt	tat	aag	ctg	agg	cag	aag	ggt	tat	gtc	tgt	gga	gct	ggc	96
Phe	Val	Gly	Tyr	Lys	Leu	Arg	Gln	Lys	Gly	Tyr	Val	Cys	Gly	Ala	Gly	
			20					25					30			
																•
				cca									_		_	144
Pro	Gly		Gly	Pro	Ala	Ala	Asp	Pro	Leu	His	Gln	Ala	Met	Arg	Ala	
		35					40					45				
				ttc -										_	_	192
Ala		Asp	Glu	Phe	Glu		Arg	Phe	Arg	Arg		Phe	Ser	Asp	Leu	
	50					55					60					
				cat												240
	Ala	GIU	Leu	His		Thr	Pro	GIY	ser		GIN	GIN	Arg	Pne		
65					70					75					80	
cag	gtc	tcc	gac	gaa	ctt	ttt	caa	ggg	ggc	ccc	aac	tgg	ggc	cgc	ctt	288
Gln	Val	Ser	Asp	Glu	Leu	Phe	Gln	Gly	Gly	Pro	Asn	Trp	Gly	Arg	Leu	
	•			85					90					95		
	_			gtc			-	_	_	_	-		_	_		336
Val	Ala	Phe	Phe	Val	Phe	Gly	Ala	Ala	Leu	Cys	Ala	Glu	Ser	Val	Asn	
			100					105					110			
aag	gag	atg	gaa	cca	ctg	gtg	gga	caa	gtg	cag	gag	tgg	atg	gtg	gcc	384

Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Ala

	ctg															432
ıyı	Leu 130	GIU	1111	Arg	пеп	135	Asp	пр	116	птѕ	140	ser	GIY	GIY	Trp	
											-10					
gcg	gag	ttc	aca	gct	cta	tac	999	gac	ggg	gcc	ctg	gag	gag	gcg	cgg	480
Ala	Glu	Phe	Thr	Ala	Leu	Tyr	Gly	Asp	Gly	Ala	Leu	Glu	Glu	Ala	Arg	
145					150					155					160	
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	ctg -												_	_		528
Arg	Leu	Arg	GIu		Asn	Trp	Ala	Ser		Arg	Thr	Val	Leu		Gly	
				165					170					175		
gcc	gtg	gca	ctg	ggg	gcc	ctg	gta	act	qta	ggg	qcc	ttt	ttt	act	agc	576
	Val													_	_	
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aag tgaa												583				
Lys																
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Phe	Val	Gly	Tyr	Lys	Leu	Arg	Gln	Lys	Gly	Tyr	Val	Cys	Gly	Ala	Gly	
			20					25					30			
Dro	~1··	C1.,	~1··	Dwo	7.7.	7 J a	7 ~~	Dage	T	772	01	37.	17 - L	3	37 -	
PIO	Gly	35	СТУ	PIO	Ala	Ата	40	PIO	ьeu	HIS	GIN	45	мес	Arg	Ala	
		33					40					43				
Ala	Gly	Asp	Glu	Phe	Glu	Thr	Arg	Phe	Arq	Arq	Thr	Phe	Ser	Asp	Leu	
	50	-				55	,		- ,	- J	60			F		
Ala	Ala	Gln	Leu	His	Val	Thr	Pro	Gly	Ser	Ala	Gln	Gln	Arg	Phe	Thr	
65					70					75					80	

Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu 85 90 95

Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn 100 105 110

Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Ala 115 120 125

Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp 130 135 140



Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly
165 170 175

Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser . 180 185 190

Lys

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		cca Pro				_	_		_	144
		ttt Phe						_	_	192
		cac His								240
		gaa Glu 85								288
		gtc Val								336
		cct Pro								384
		cgt Arg								432
		gct Ala								480
		ggg Gly 165								528

gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc 576 Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser 180 185 190

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Lys

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Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val Ala Asp

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Phe Val Gly Tyr Arg Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly
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Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala
35 40 45

Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu 50 55 60

Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr
65 70 75 80

Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu 85 90 95

Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn 100 105 110

Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Asp Trp Met Val Ala 115 120 125

Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp
130 135 140

Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg 145 150 155 160

Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly
165 170 175

Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser 180 185 190

Lys